



Media Advisory



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Simulated Reconnaissance Demonstration Will Highlight Robots and Military Vehicles

The only sound is the soft crunch of tires on gravel as a Reconnaissance, Surveillance and Target Acquisition team recons a potential convoy route. The Hybrid-Electric High Mobility Multipurpose Wheeled Vehicle's (HMMV) all-electric drive train is quiet enough that the team can use all five senses, and not be deafened by the thrum of the diesel engine – a huge tactical advantage when operating in unfamiliar territory.

As the team continues, sensors detect a suspicious object that could be an improvised explosive device (IED). Moving the vehicle to a covered area, a scout deploys a small robot and negotiates it around obstacles to get a better view of the suspected IED.

A threat exists, so the platoon calls in the explosive ordinance disposal (EOD) team and departs, leaving two teams to assume an over-watch position waiting for EOD's arrival.

Shortly after, a lumbering behemoth appears – a Mine Resistant Ambush Protected (MRAP) vehicle arrives on the scene. The back hatch opens and the EOD team deploys two unmanned ground vehicles (UGVs). The UGVs inch closer, surveying the rubble strewn over the area...

Want to know what happens next? Better yet, want to film or photograph the action or talk to an expert?

Well, join us Aug. 18-20 at the Ground Vehicle Systems Engineering and Technology Symposium (GVSETS) at the Detroit Marriott Troy, in Troy, MI, to see this exciting Tank Automotive Research, Development and Engineering Center (TARDEC) demonstration and vehicle exhibit. Actual demonstrations take place 5:30 p.m., Aug. 18, and 7 p.m., Aug. 19.

GVSETS Information

Hosted by the National Defense Industrial Association's (NDIA's) Michigan Chapter, GVSETS is a forum where the military, automotive industry and technology industries can share innovations, information and ideas. Participants from government, industry and academia – including TARDEC associates – will take part in a variety of presentations to learn about the latest developments in ground vehicle systems engineering and technology for warfighters as well as what technical capabilities are being sought in the automotive and robotics sectors.



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The demonstration described above is part of a collection of government, military and industry displays and demonstrations. Media are invited to attend GVSETS and these live demonstrations. If you would like to attend, please contact TARDEC's Media Relations Team: Bill Dowell at william.dowell2@us.army.mil or (586) 907-8676; or John Wray at jwray@brtrc.com or (248) 310-7231.

The event's theme, *Rapidly Transforming Ground Vehicle Technologies – Providing Superior Capabilities for the Warfighter Today and Tomorrow*, highlights how TARDEC and the Department of Defense's Ground Systems Enterprise is engaging government, industry and academia on the latest developments in ground vehicle systems engineering and technology. Likewise, it's an excellent opportunity to learn what technical capabilities are being sought in the private sector.

The conference consists of a 1.5-day main session with National-level speakers and the next 1.5 days will be comprised of five mini-symposiums. Confirmed main session speakers include:

- **LTG Rick Lynch** – Commanding General, III Corps, Fort Hood, TX
- **LTG Stephen M. Speakes** – G-8 Deputy Chief of Staff
- **Dr. Thomas H. Killion** – Deputy Assistant Secretary of the Army for Research and Development/Army Chief Scientist
- **Al Shaffer** – Principal Deputy Director for Defense Research and Engineering, Department of Defense
- **Gary Martin** – RDECOM Executive Deputy to the Commander
- **Dr. Grace M. Bochenek** – TARDEC Director
- **Gary Blohm** – Communications-Electronics Research, Development and Engineering Center Director
- **Patrick Davis** – Department of Energy, Technology, Vehicle Technologies Program Manager
- **MG Nickolas G. Justice** – Program Executive Office (PEO) Command Control and Communications Tactical Program Executive Officer
- **BG R. David Ogg** – PEO Ground Combat Systems Program Executive Officer
- **Tom Bagwell** – PEO Combat Support and Combat Service Support Program Executive Officer



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- **Mr. Ed Mazzanti** – Director Accelerated Capabilities, Army Capabilities Integration Center
- **Mike Viggato** – TACOM Life Cycle Management Command Deputy to the Commander
- **Paul Skalny** – TARDEC National Automotive Center Director
- **Chuck Prikopa** – NDIA Chapter Development and GVSET Symposium Chair

Each mini-symposium will have its own architecture, including speakers, paper presentations and working discussions. Topics include:

• **Power and Energy** — The theme is *Energy Efficiency Today, Tomorrow and Beyond Tomorrow*, and the sessions will include topics such as energy efficiency, batteries, and power and thermal management (micro-grid).

- **Robotic Systems** — This session will address key life cycle and technical challenges for current and future fielded robotic systems. The challenges will be grouped into four categories: perception and intelligence; command and control; platforms and payloads; and sustainability and systems engineering.
- **Modeling and Simulation (M&S), Testing and Validation** — This session will address current developments in M&S technology as applied to military ground vehicle systems engineering in several application domains, including: performance, durability and reliability; mobility; thermal modeling; distributed simulation; optimization; testing and validation.
- **Vehicle Electronics and Architecture** — This seminar will address: Condition-Based Maintenance Plus; Emerging Trends in Software and Hardware Architecture for Military Ground Vehicles; and Networks and Battle Command.

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TARDEC is the Nation's laboratory for Ground Systems Integration to ensure U.S. Soldiers continue to be the best-equipped and most lethal, survivable and sustainable fighting force on Earth. For additional information or to schedule an interview with a TARDEC subject-matter expert, please contact Bill Dowell at (586) 907-8676, william.dowell2@us.army.mil or John Wray at (248) 310-7231, jwray@brtrc.com.

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